

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866133

Luminaire Tested: PRLX-2001-M-940-65L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-940-65L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

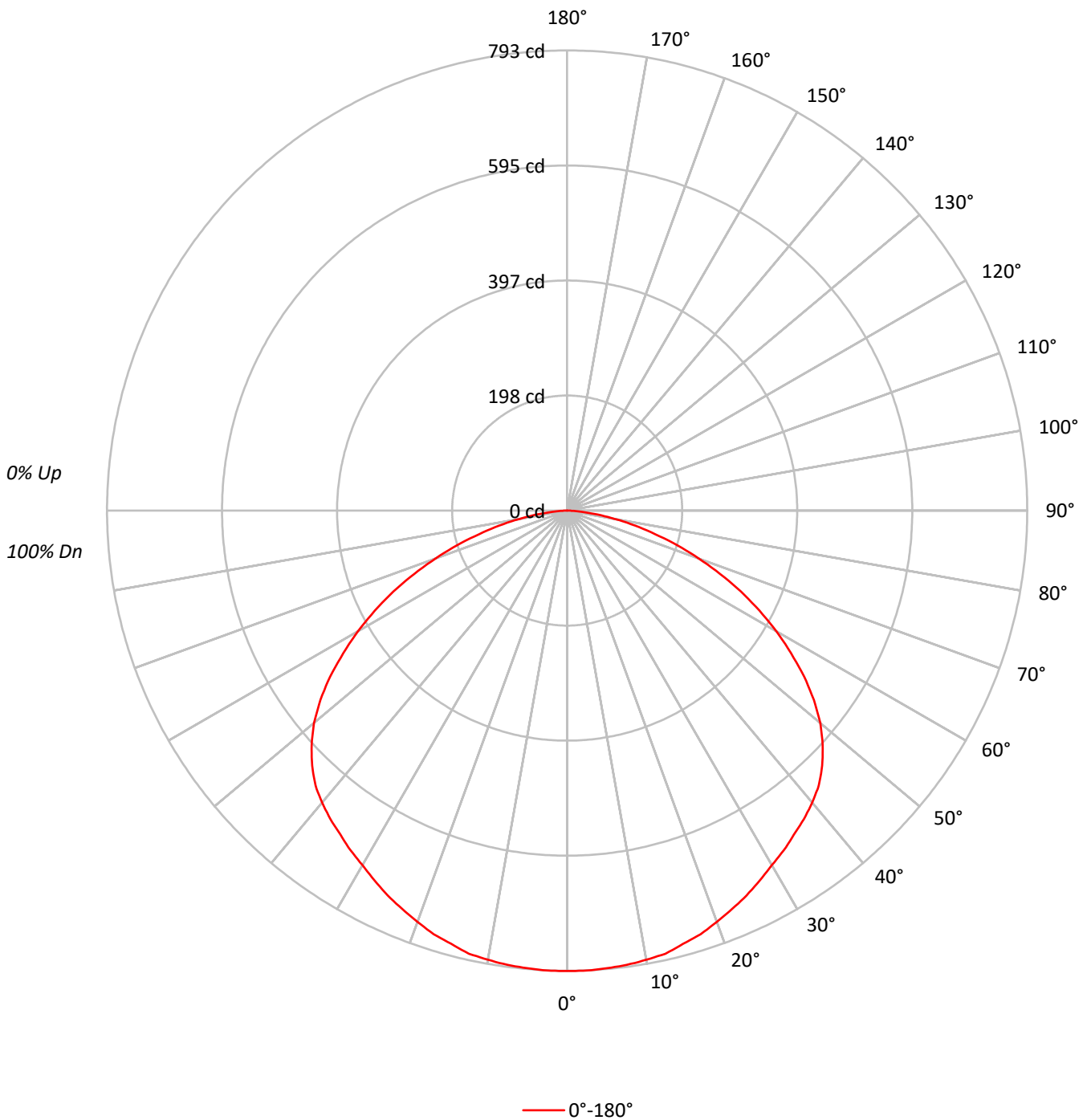
Lumens per Lamp: N/A
Luminaire Lumens: 2510.2 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6733
5°	6742
10°	6772
15°	6790
20°	6811
25°	6852
30°	6915
35°	7059
40°	7279
45°	7460
50°	7517
55°	7374
60°	7065
65°	6634
70°	5975
75°	5141
80°	4105
85°	2541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	3.0
10°-20°	218.5	8.7
20°-30°	337.6	13.5
30°-40°	427.8	17.0
40°-50°	478.1	19.0
50°-60°	443.8	17.7
60°-70°	325.9	13.0
70°-80°	168.2	6.7
80°-90°	34.8	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	631.6	25.2
0°-40°	1059.3	42.2
0°-60°	1981.3	78.9
0°-90°	2510.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2510.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	793	
5°	792	75
15°	773	219
25°	732	338
35°	681	428
45°	622	478
55°	498	444
65°	330	326
75°	157	168
85°	26	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	793.4
2.5°	793.4
5°	791.5
7.5°	789.7
10°	785.9
12.5°	782.2
15°	772.9
17.5°	765.4
20°	754.2
22.5°	743.0
25°	731.8
27.5°	718.7
30°	705.7
32.5°	694.5
35°	681.4
37.5°	670.2
40°	657.1
42.5°	642.2
45°	621.6
47.5°	597.4
50°	569.4
52.5°	535.8
55°	498.4
57.5°	457.4
60°	416.3
62.5°	373.4
65°	330.4
67.5°	285.6
70°	240.8
72.5°	199.7
75°	156.8
77.5°	119.5
80°	84.0
82.5°	52.3
85°	26.1
87.5°	7.5
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.34	21.01	19.70	21.32	21.63	19.34	21.01	19.70	21.32	21.63
	3H	20.98	22.49	21.36	22.81	23.17	20.98	22.49	21.36	22.81	23.17
	4H	21.52	22.94	21.92	23.29	23.67	21.52	22.94	21.92	23.29	23.67
	6H	21.87	23.18	22.28	23.55	23.94	21.87	23.18	22.28	23.55	23.94
	8H	21.95	23.21	22.37	23.59	23.99	21.95	23.21	22.37	23.59	23.99
	12H	21.98	23.19	22.41	23.57	24.00	21.98	23.19	22.41	23.57	24.00
4H	2H	19.95	21.37	20.34	21.71	22.09	19.95	21.37	20.34	21.71	22.09
	3H	21.79	22.97	22.20	23.37	23.77	21.79	22.97	22.20	23.37	23.77
	4H	22.44	23.51	22.87	23.93	24.36	22.44	23.51	22.87	23.93	24.36
	6H	22.89	23.82	23.34	24.26	24.72	22.89	23.82	23.34	24.26	24.72
	8H	23.00	23.87	23.46	24.32	24.78	23.00	23.87	23.46	24.32	24.78
	12H	23.06	23.84	23.54	24.32	24.79	23.06	23.84	23.54	24.32	24.79
8H	4H	22.69	23.57	23.15	24.01	24.47	22.69	23.57	23.15	24.01	24.47
	6H	23.22	23.95	23.72	24.44	24.91	23.22	23.95	23.72	24.44	24.91
	8H	23.38	24.03	23.89	24.54	25.02	23.38	24.03	23.89	24.54	25.02
	12H	23.48	24.05	23.98	24.54	25.10	23.48	24.05	23.98	24.54	25.10
12H	4H	22.71	23.50	23.19	23.97	24.44	22.71	23.50	23.19	23.97	24.44
	6H	23.25	23.90	23.76	24.41	24.89	23.25	23.90	23.76	24.41	24.89
	8H	23.45	24.02	23.95	24.51	25.07	23.45	24.02	23.95	24.51	25.07